Mukul Shingwani

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EDUCATION

Indian Institute of Technology, Jodhpur   Nov. 2020 – Aug 2024
Bachelor of Technology in Artificial Intelligence and Data Science   *Current CG : 8.89*

Delhi Public School, Dwarka   Mar 2008 – May 2020
P-C-M with Computer Science   *Percentage : 94.25*

POSITION OF RESPONSIBILITIES

Associate Head, E-cell   Dec 2021 – Present
IIT jodhpur   *Jodhpur, IND*
- Managing,conducting and bringing sponsors for various events related to entrepreneurship and related domains

Core Member, Placement and Internship Cell   Dec 2021 – Present
IIT jodhpur   *Jodhpur, IND*
- Forming and Managing the database of Intern and placement opportunities in various MNC's and Startups
- communicating and interacting with the Industry people to get them on board with on campus Intern/Placement drive

PROJECTS

WebApp for COVID-19 detection using chest X-ray   Apr 2022 – May 2022
Python,CNN,Resnet,DeepLearning   **Github Link**
- Developed a model to detect COVID-19 from the frontal images of chest X-ray and achieved 93.28% accuracy
- Did Lung segmentation using U-Net model,made a Scratch VGG model and Implemented multi-modality by concatenating the feature maps from Lung segmented,Non lung segmented and whole X-ray image to classify them
- Used VGG-19 model and hosted a web application where user would be able to upload X-rays and get the result

WebApp for Flight price prediction   Apr 2022 – Apr 2022
Python,AutoML,sklearn   **Github Link**
- Developed a Flight price predictor model using Neural Networks to predict prices of flights, achieved a r2-score of 0.87 and deployed the model and website using javascript and Github

Scheduling Algorithms   Feb 2022 – Feb 2022
C++,python,Operating systems   **Github Link**
- Implemented FCFS, SJF, Non-preemptive SJF, Round Robin and priority schdeuling algorithms and used them to find ATT, AWT and ART to do comparative analysis

MedBuddy App   Oct 2021 – Dec-2021
Flutter, dart, Firebase, Firestore   **Github Link**
- Developed an application for slot booking and scheduling for medical assistance involving authentication and database management of user and doctor using Firebase and Firestore
- Built Interactive and user friendly UI for patient and doctor's interface with multiple features for user's ease

Signal Denoising model   June 2021 – Jul 2021
Python, matplotlib   **Github Link**
- Developed a Signal de-noising model to de-noise and de-blur images using the concepts of Convolution, Fourier Transform and Inverse Fourier Transform

TECHNICAL SKILLS

skills: Machine Learning, Competitive Programming, App Development, Web Development
Languages: C, C++, Python, MySQL, HTML, CSS
Frameworks: Django, Flutter, Firebase
Libraries: pandas, NumPy, Matplotlib, Seaborn, Sklearn, PyTorch, Keras/tensorflow, NLTK

ACADEMIC ACHIEVEMENTS

- secured 2nd rank in pattern recognition and Machine Learning course
- secured 3rd rank in Data structures and algorithms course